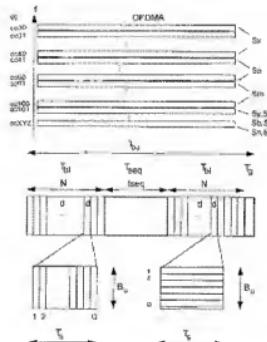


Resource allocation in radio interface of radio communications system**Publication number:** DE19800953**Publication date:** 1999-07-29**Inventor:** RITTER GERHARD (DE)**Applicant:** SIEMENS AG (DE)**Classification:****- international:** H04B17/00; H04L5/02; H04Q7/38; H04B17/00; H04L5/02; H04Q7/38; (IPC1-7): H04B7/005, H04B7/204, H04B7/26, H04J13/02, H04L27/00, H04Q7/38**- European:** H04Q7/38C4, H04L5/02Q, H04W72/08**Application number:** DE19981000953 19980113**Priority number(s):** DE19981000953 19980113**Report a data error here****Abstract of DE19800953**

The method involves transmitting data symbols (d) in time slots (s) over the radio interface between a base station (BS) and several mobile stations (MS) handled by the base station. An OFDMA multi-carrier method is used for the transmission of the data symbols, which assigns respectively several sub-carriers (oc) and a segment (S_{m}) of a frequency spectrum to the mobile stations, to form a connection between base station and mobile station. The quality of different segments of the frequency spectrum is measured through each mobile station. At least one preferred segment, suitable for its own connection, is determined through each mobile station. A corresponding information is transmitted to the base station. The information received from the mobile stations is evaluated through the base station, and a segment for the respective connection is assigned to each mobile station, dependent on the evaluation. An information about the assigned segment is transmitted to each mobile station through the base station.

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